Film to Glass Chart March 2020

This Film To Glass (FTG) Application Chart is for guidance purposes only. For more information regarding the application of one of the products included in this FTG on a particular glass surface, please contact our technical team at **gs.technical@ap.averydennison.com**

Compatible

Conditional Compatibility

Tinted glazing recommendations are based upon simulations done on 45% LT tinted glass. Film can be applied on darker tinted glass if glass is fully tempered or based on written approval from Avery Dennison technical support.

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- ▲ Tempered / heat strengthened Film can be applied only if the glass is tempered, and not annealed (for IGU requirement for both panels).
- imes Incompatible



MPORTANT: This chart refers to annealed glass. See terms and conditions			Single	e Pane		IG	Jnit	Clear IG Unit - Low E		
		Clear	Tinted	Clear Laminated ³	Tinted Laminated	Clear	Tinted	On #3	High Performance on #2	
Reflective	R Silver 20i	~	~	~	•	~	•	~	×	
	R Silver 35i	~	 Image: A second s	~	~	 Image: A set of the set of the	•	 Image: A second s	×	
	DR OptiTune 05i	 Image: A set of the set of the	 Image: A second s	~		 Image: A second s	•		 Image: A second s	
	DR OptiTune 15i	~	 Image: A second s	×		 Image: A second s	•	 Image: A second s	 Image: A set of the set of the	
	DR OptiTune 20i	~	 Image: A second s	~		 Image: A second s	•		~	
Dual	DR OptiTune 30i	~	×	~	~	×	•		×	
Reflective	DR OptiTune 40i	×	 Image: A second s	 Image: A set of the set of the	~	 Image: A second s	 Image: A set of the set of the		×	
	DR OptiShade 15i	×	 Image: A second s	 Image: A set of the set of the		 Image: A second s	•		×	
	DR OptiShade 25i	×	 Image: A second s	~		 Image: A second s	•		~	
	DR OptiShade 35i	~	 Image: A second s	 Image: A second s		 Image: A second s	•		~	
Spectrally Selective	SP e-Lite 45i ¹	×	×	×	×	×	 Image: A second s		×	
	SP e-Lite 70i1	×	×	×	×	×	 Image: A second s	 Image: A second s	×	
Netural	NT PerLite Ceramic 20i	×	×	A			•			
	NT PerLite Ceramic 35i	×	×	~		×	×		×	
	NT PerLite Ceramic 50i	×	×	~	•	×	 Image: A second s	~	×	
	NT PerLite Ceramic 70i	×	×	×	•	×	 Image: A second s	 Image: A second s	×	
	NT Natura 05i	×	A	A			A			
	NT Natura 15i	×								
	NT Natura 30i	×	•	 Image: A second s	•	×	•		×	
Design	DS Matte 2 mil i	×	×	 Image: A second s		×	•	~	×	
	DS Black i		A		×	×	×	×	×	
	DS White i	×	×	~		×	•			
	DS UV Filter i	×	×	 Image: A set of the set of the	 Image: A second s	×	 Image: A second s	~	×	
	DS Print SR 2/4 mil i ⁴	×	×	 Image: A set of the set of the	 	×	×	 Image: A second s	×	
Solar Safety	R Silver 20 4 mil	×	×	~	•	×	•	 Image: A set of the set of the	×	
	NT PerLite Ceramic 35 6mil	~	×	~		×	×		×	
Safety & Security	SF Clear 4/7/8/12/15 mil i	×	 Image: A second s	~	~	 Image: A second s	 Image: A second s	~	×	
	SF Matte 5/12 mil i	×	×	 Image: A set of the set of the		×	•	 Image: A second s	×	
	AG Clear 4/6 mil ix	~	 Image: A set of the set of the	~	~	~	~	~	~	

1. Must be sealed if within 10 miles / 16km of the ocean. Use neutral sealing agent Dow Corning 791 or 795, Max 5000 by GE or equivalent neutral silicone seal agent. No edge sealing required on such location in case of fixed/stationary/immovable windows that are not exposed to environment.

2. Projects larger than 5500 sqft (500 sqm) need prior written approval from Avery Dennison.

3. Laminated clear applies only to 1/4" + 1/4" (6.35mm + 6.35mm) structures and thinner.

4. Light and white inks are approved for print on DS Print SR films. Other colored or dark inks printed on DS Print SR films require prior approval from the Avery Dennison technical support team. DS Print SR films are not suitable for direct exposure to the sun.

5. Refers to application of clear safety films unless it's in combination with other Avery Dennison window films in which case the Safety Clear Mod film receives the characteristics and warranty of the film that is applied on it.

6. Window films are not warranted for seal failure.



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▲ Tempered / heat strengthened

Film can be applied only if the glass is tempered, and not annealed (for IGU requirement for both panels).

Exterior			Single Pane			IG Unit		Clear IG Unit - Low E		IG Unit Low E
All exterior films require sealing! Use neutral sealing agent Dow Corning 791 or 795, Max 5000 by GE or approved equivalent neutral silicone seal agent for exterior applications.										
^ Laminated clear applies only to 1/4" + 1/4" (6.35 mm + 6.35 mm) structures.		Clear	Tinted	Clear Laminated^	Tinted Laminated	Clear	Tinted	On #3	High Performance on #2	Solar coated glass #2 + High Performance Low E #3
	R Silver 20X	×	×	 Image: A second s	×	 	 Image: A second s	>	×	~
	R Silver 35X	×	 Image: A second s	 Image: A second s	×	 Image: A second s	×	>	×	×
Reflective	R Silver 20X Poly	 Image: A second s	×	 Image: A second s	 Image: A second s	 Image: A second s	 Image: A second s	>	 Image: A set of the set of the	×
Reflective	R Silver 20 XTRM	 Image: A second s	 Image: A second s	 Image: A set of the set of the	 Image: A second s	~	 Image: A second s	>	 Image: A second s	~
	R SkyLite 20 XTRM	 Image: A second s	 Image: A second s	 Image: A set of the set of the	 Image: A set of the set of the	~	 Image: A second s	>	 Image: A second s	~
	R SkyLite 20 XTRM Poly	~	×	~	 Image: A set of the set of the	~	 Image: A second s	>	 Image: A second s	~
	DR Grey 10X	~	×	×	 Image: A second s	~	×	>	 Image: A second s	~
	DR Grey 20X	~	× .	 Image: A set of the set of the	 Image: A second s	~	 Image: A second s	>	 Image: A second s	~
Dual Reflective	DR Grey 35X	~	× .	~	 Image: A second s	~	~	>	 	
DuarReflective	DR Grey 10 XTRM	~	×	~	 Image: A set of the set of the	~	 Image: A second s	>	 Image: A second s	~
	DR Grey 20 XTRM	~	×	×	 Image: A set of the set of the	~	 Image: A second s	>	 Image: A set of the set of the	~
	DR Grey 35 XTRM	~	× .	 Image: A set of the set of the	 Image: A set of the set of the	~	 	>	 Image: A second s	
On a startly O starting	SP e-Lite 45X	~	× .	~	 Image: A second s	~	~	>	 	
Spectrally Selective	SP e-Lite 70X	~	 	~	×	~	~	>	 Image: A second s	~
Desire	DS Bronze 20X	~	~	~	×	~	~	>	 Image: A set of the set of the	~
Design	DS Blue 35X	~	~	~	×	~	~	>	 Image: A second s	
Ola an Eilean	SF Clear 4/7 mil X	~	 	~	 	~	 	>	 Image: A second s	~
Clear Films	Clear 4/6 mil poly X	~	 Image: A second s	~	×	~	~	>	~	~
Surface Protection	AG Clear 4/6 mil ix	~	 Image: A second s	~	×	~	 Image: A second s	>	 Image: A second s	~

Important restrictions and limitations on installation:

- It is the installer's responsibility to ensure that the film chosen is compatible with the glazing system.
- All film types can be applied to tempered glass, except for DS Black i and DS White i - see chart for limitations.
- Pane size: for glass with an edge dimension over 11.5 ft (3.5 m), and/or the surface of double pane glass has more than 40 sqft (3.7 sqm) surface area- use only on tempered glass.
- Pane thickness: clear glass > 3/8" (9.5 mm), tinted glass > 1/4" (6 mm) use only on tempered glass unless given special approval otherwise.
- FTG chart refers to altitude up to 1640 ft (500 m). Above this altitude please consult with our technical support team. Altitude > 7000 ft (2310 m) - installation requires prior written approval from Avery Dennison (unless specifically specified, e.g. clear laminate).
- Installation on laminated glass requires prior written approval from Avery Dennison.
- Interior of skylights installation requires prior written approval from Avery Dennison. These installations require sealing on all four edges.

Warranty is invalid if:

- Installation practices do not conform to Avery Dennison's published installation policies and procedures.
- Two or more films are applied to the same glass surface (with the exception of Avery Dennison Modular Film).
- Automotive film is applied to flat glass constructions.
- The filmed windows are triple or more pane construction, textured, wire film glass, or an IG unit inclusive of a suspended film, unless approved otherwise.
- Film is applied to any glass on which there is paint, lettering, signs, stickers or other permanent or temporary ornamentation (with the exception of small safety labels).
- Filmed glass has prior damage, is chipped, has cracked edges, has holes in it, or light is visible between the frame and the glass.
- Film is applied to non-glass substrates (unless specifically specified, i.e. Poly Films).
- Film is only partially applied to glass.
- Pane is shaded by exterior overhangs, extensions, columns, pillars etc.
- Glass is architecturally odd-shaped, and larger than 20 sqft (1.8 sqm).
- Damage is caused by acts of nature (accidents, floods, fire, explosion etc.).
- Avery Dennison XTRM films are installed by non-Avery Dennison Certified installers.

